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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/998,724	11/30/2001	Rolf Bruck	E-41365	7179
24131 75	90 08/31/2006		EXAMINER	
LERNER GREENBERG STEMER LLP			DUONG, THANH P	
P O BOX 2480 HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER
			1764	
			DATE MAILED: 08/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		09/998,724	BRUCK, ROLF
		Examiner	Art Unit
		Tom P. Duong	1764
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	ne correspondence address
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply to will apply and will expire SIX (6) MONTHS a cause the application to become ABAND.	ION. se timely filed from the mailing date of this communication. ONED (35 U.S.C. & 133)
Status			
2a)⊠	Responsive to communication(s) filed on 15 Ju This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final.	
Dispositi	on of Claims		
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) 1-7,11,13,14,16-20 and 25-28 is/are page 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 5-7,11,16-20 and 23-28 is/are rejected to Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examined The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examined Replacement drawing sheet(s) including the correction of the oath of the o	vn from consideration. d. relection requirement. r. epted or b) □ objected to by the drawing(s) be held in abeyance. on is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		
12)[a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Applic ity documents have been rece (PCT Rule 17.2(a)).	cation No eived in this National Stage
2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) ' No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:	

DETAILED ACTION

Applicant's remarks and amendments filed on June 15, 2006 have been carefully considered. Claims 1-7, 11, 13-14, 16-20, and 25-28 are pending in this application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 11, 16, 25, and 27-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Bauer et al. (5,714,103). Bauer et al. discloses a honeycomb body (Col. 6, lines 57-67), comprising: channels through which a fluid can flow; a plastically deformable and subsequently consolidatable first mass being predeterminably (Col. 3, lines 15-67) applied in printed layers and consolidated (Col. 4, lines 17-28); at least one second mass forming another printed layer along a section through the honeycomb body next to said first mass; said first mass having a property different from that of said second mass (Col. 3, lines 15-30); and walls all being entirely formed of said printed layers (Col. 4, lines 17-28) and defining said channels (longitudinal pores); and the honeycomb body is formed completely of ceramic (Col. 3 lines 15-30). Bauer discloses the layers (Col. 4, lines 16-27) can be formed desirable shapes including flat shapes. Regarding claims 27 and 28, the fluid flow orientation with respect to the honeycomb

body does not impart patentability to the claims. Note, expression relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim. *Ex parte Thibault*, 164 USPQ 666, 667 (Bd App. 1969) and *In re Young*, 75, F.2d 966, 25 USPQ 69 (CCPA 1935)

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 5-7, 14, and 17-20 rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer et al. '103 in view of Maus et al. (5,474,746). Regarding claims 5 and 7, Bauer '103 discloses a honeycomb body (Col. 6, lines 57-67) comprising: ceramic walls all being entirely formed of printed layers (Col. 3, lines 15-67 and Col. 4, lines 17-59) forming channels through which a fluid can flow, said channels lying next to one another. Bauer '103 fails to disclose at least one at least one measuring sensor and an electrically conductive mass integrated into one of said ceramic walls. Maus '746 teaches at least one temperature sensor and/or heat conductor 17 (Abstract and Col. 2, lines 17-49) extending between the honeycomb corrugated layers 21 and 22 (Fig. 2 and Col. 2, lines 17-42) to measure the wall temperature of the catalytic converter (Col. 3, lines 55-60). Thus, it would have been

obvious in view of Maus '746 to one having ordinary skill in the art to modify the honeycomb body of Bauer '103 with a temperature sensor and/or measuring conductor as taught by Maus '746 in order to measure the wall temperature of the honeycomb body. Regarding claim 6, the combination of Bauer '103 in view of Maus '746 provide a honeycomb body with at least one of said measuring sensor and said electrically conductive mass surrounded completely by ceramic. Regarding claim 14, the applied references disclose it is conventional to fabricate the honeycomb body with ceramic and/or combination of ceramic and non-ceramic materials and it would have been obvious in view of the applied references to one having ordinary skill in the art to select a known material for the honeycomb body based on its intended use. See In re Leshin, 227 F.2d 197, 125 USPQ 416 (CCPA 1960). Regarding claim 17, Bauer discloses the layers (Col. 4, lines 16-27) can be formed desirable shapes including flat shapes. Furthermore, the court held that a change in shape is obvious over the prior art in the absent of unexpected results. See In re Dailey, 357 F.2d 669, 149, USPQ 47 (CCPA 1966). Regarding claims 18 and 19, the fluid flow orientation with respect to the honeycomb body does not impart patentability to the claims. Note, expression relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim. Ex parte Thibault, 164 USPQ 666, 667 (Bd App. 1969) and *In re Young*, 75, F.2d 966, 25 USPQ 69 (CCPA 1935). Regarding claim 20, Bauer '103 discloses the layers (Col. 4, lines 17-28) have a three-dimensional interconnecting pore structure (Col. 6, line 62- Col. 7, lines 1-4).

3. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer '103 in view of Ohashi et al. '347. Bauer '103 discloses the claimed invention except an orifice formed therein from one of said channels to another of said channels as a passage for the fluid. Ohashi teaches the orifice (through holes 33) is formed onto the partition walls 32a and 32b to create a turbulence flow in a stream of fluid (Col. 6, lines 40-49) to improve mass and heat transfer (Col. 5, lines 1-9). Thus, it would have been obvious in view of Ohashi to one having ordinary skill in the art to modify the honeycomb body of Bauer with the orifice as taught by Ohashi in order to create turbulent flow for the fluid, which improves mass and heat transfer.

Response to Arguments

Applicant's arguments filed 6/15/06 have been fully considered but they are not persuasive. (1) With respect to Applicant's argument of Maus '746 fails to teach a senor or the electrically conductive mass is integrated into one of the ceramic walls, Examiner respectfully disagrees. It is submitted that Bauer et al. '103 discloses ceramic walls is formed with printed layers (Col. 3, lines 15-45 and Col. 4, lines 17-59) but fail to discloses a sensor or electrically conductive mass integrated into one of said ceramic walls. It is submitted that Maus '746 teaches not only the sensor and/or heat conductor 17 (Abstract and Col. 2, lines 17-49) extending between the honeycomb corrugated layers 21 and 22 (Fig. 2 and Col. 2, lines 17-42) to measure the wall temperature of the catalytic converter (Col. 3, lines 55-60) but also teaches the conductors is embedded in the ceramic walls (Col. 2, lines 25-30). The sensor embedded between the metallic

walls in the Maus '746 is one of the preferred embodiments but is not limited to other materials including ceramic material because Maus '746 teaches that the sensor can be embedded in between layers, which can withstand high temperature and corrosion-proof material (Col. 2, lines 17-21) including ceramic material. (2) With respect to the argument of Bauer et al. '103 fails to disclose the first and second masses disposed in printed layers and having different properties, Examiner respectfully disagrees. It is submitted that Bauer discloses the process of shaping the object by forming from printed layers (Col. 3, lines 5-15) and Bauer further discloses the process for production of shaped articles can be applied to virtually all materials which can undergo plastic deformation and then solidified in layers (Col. 4,lines 48-52). Therefore, applying different masses in printed layers does not limit the scope of Bauer's invention.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

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than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tom P. Duong whose telephone number is (571) 272-

2794. The examiner can normally be reached on 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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Tom Duong August 28, 2006

TD

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